

# NUTRIENT ANALYSIS REPORT

For compliance with General Permit for Nitrogen Discharges

Facility Name: New Haven

Month of: September-2013

Permit Number: CT0100366

Design Flow: 40,000,000

## FINAL EFFLUENT

(A) Sample Date	(B) TKN mg/L	+	(C) Nitrite + Nitrate mg/L	=	(D) Total Nitrogen mg/L	x	(E) Average Daily Flow, (mgd)	x		=	(F) Total Nitrogen lbs/day
9/1/13	4.9	+	2.2	=	7.1	x	23.4	x	8.34	=	1386
9/2/13	3.9	+	3.2	=	7.1	x	26.4	x	8.34	=	1563
9/4/13	5.5	+	3.2	=	8.7	x	23.4	x	8.34	=	1698
9/5/13	3.8	+	3.3	=	7.1	x	23.5	x	8.34	=	1392
9/8/13	1.7	+	3.0	=	4.7	x	22.7	x	8.34	=	890
9/9/13	1.7	+	4.4	=	6.1	x	21.5	x	8.34	=	1094
9/11/13	3.7	+	2.8	=	6.5	x	24.7	x	8.34	=	1339
9/12/13	4.6	+	2.7	=	7.3	x	29.9	x	8.34	=	1820
9/15/13	5.0	+	2.5	=	7.5	x	23.0	x	8.34	=	1439
9/16/13	2.5	+	3.8	=	6.3	x	23.2	x	8.34	=	1219
9/18/13	2.9	+	4.3	=	7.2	x	23.7	x	8.34	=	1423
9/19/13	5.8	+	3.2	=	9.0	x	22.5	x	8.34	=	1689
9/22/13	7.2	+	2.7	=	9.9	x	33.4	x	8.34	=	2758
9/23/13	6.4	+	4.0	=	10.4	x	22.9	x	8.34	=	1986
9/25/13	10.9	+	2.8	=	13.7	x	22.3	x	8.34	=	2548
9/26/13	12.7	+	3.2	=	15.9	x	22.4	x	8.34	=	2970
9/29/13	5.8	+	5.9	=	11.7	x	21.2	x	8.34	=	2069
9/30/13	3.6	+	5.1	=	8.7	x	23.4	x	8.34	=	1698
Total Pounds										=	30980
(G) Average Pounds										=	1721

Date of Last Calibration of Flow Meter: 06/21/2013

### Note:

(A) Sample Date: Date of Sampling ended

(B) TKN (mg/L): A single number because TKN is the sum of ammonia and organic nitrogen

(C) Nitrite + Nitrate: A single number

(D) Total Nitrogen (mg/L): TKN + (nitrite + nitrate) = Total Nitrogen, rounded to 0.1 mg/L

(E) Average Daily Flow (mgd): Day of sampling: Rounded to 0.1 mgd if design flow is 1.0 mgd or more.

Round to nearest 0.01 mgd if design flow is less than 1.0 mgd.

(F) Total Pounds: Sum of all monitoring days

(G) Average Pounds: Total pounds/ Number of days; rounded to nearest whole number. Must also be reported in DMR.

### STATEMENT OF ACKNOWLEDGEMENT

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

Authorized Official: \_\_\_\_\_

Title: Project Manager

Date: 10/9/2013